

INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB2004/004012

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G04B17/06 F16F1/02				
According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 G04B F16F G04D				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
X A P,A	US 3 187 416 A (PAUL TUETEV ET AL) 8 June 1965 (1965-06-08) the whole document ----- FR 2 842 313 A (LEVINGSTON GIDEON) 16 January 2004 (2004-01-16) cited in the application the whole document -----	1,2,4-6, 11,12 3,7-10 1-12		
A	BERNER, G.-A: "Dictionnaire professionnel illustré d'horlogerie" 1961, CHAMBRE SUISSE D'HORLOGERIE, CHAUX DE FONDS, XP002313758 pages 828-831 -----	1,12		
A	US 5 907 524 A (FAVRE ERIC ET AL) 25 May 1999 (1999-05-25) column 1, lines 43-59 ----- -/--	1-12		
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C.				
<input checked="" type="checkbox"/> Patent family members are listed in annex.				
* Special categories of cited documents : <table border="0"> <tr> <td style="vertical-align: top;"> "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed </td> <td style="vertical-align: top;"> "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family </td> </tr> </table>			"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family			
Date of the actual completion of the international search 18 January 2005		Date of mailing of the international search report 19. 04. 2005		
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer Burns, M		

INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB2004/004012

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3 624 883 A (BAEHNI THOMAS) 7 December 1971 (1971-12-07) abstract	1-12
A	----- EP 1 256 854 A (SEIKO INSTR INC) 13 November 2002 (2002-11-13) abstract -----	1-12

INTERNATIONAL SEARCH REPORT

International application No.
PCT/GB2004/004012

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-12

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-12

A method of making a non-magnetic balance spring by winding around a former, using a releasing agent between the turns which is applied in a vaporised particle form, then heat treating.

2. claims: 13-19

A method of making a non-magnetic balance spring by placing a length of a non-magnetic material in or onto a conical mandrel, then heat treating.

3. claims: 20-50, 59-62, 64-66

A thermally compensated balance, balance assembly, and method of forming a balance assembly

4. claims: 51-58, 63

A mechanical oscillator system incorporating an adjustable balance

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB2004/004012

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 3187416	A	08-06-1965	CH 375685 A	15-10-1963
FR 2842313	A	16-01-2004	FR 2842313 A1	16-01-2004
			AU 2003244861 A1	02-02-2004
			EP 1522002 A1	13-04-2005
			WO 2004008259 A1	22-01-2004
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			CN 1215179 A	28-04-1999
			JP 11194174 A	21-07-1999
			SG 74083 A1	18-07-2000
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			CH 187668 A	15-12-1970
			DE 1905494 A1	06-11-1969
EP 1256854	A	13-11-2002	JP 2002341054 A	27-11-2002
			CN 1385765 A	18-12-2002
			EP 1256854 A2	13-11-2002
			US 2002167865 A1	14-11-2002